

SYSTEM 200 Supermicrocomputer



FEATURES

- ☐ Ruggedized packaging
- ☐ High-speed MC68010 processor
- ☐ Expandable to 16Mb of RAM
- ☐ 50Mb or 140Mb high-speed hard disk storage
- ☐ Industry standard UNIX V operating system
- ☐ Communications capability with IBM mainframes
- ☐ Single or multiuser configurable
- ☐ Local Area Networking through optional Ethernet link

INTRODUCTION

Cromemco is an industry leader in the development of high performance computer systems. For over a decade Cromemco products have been widely recognized for their quality and reliability. Long time customers, such as the United States Air Force, keep coming back because Cromemco's products consistently exceed their expectations for performance and durability. All products are manufactured to Mil 9858A standards, offering all of our customers an unusually high level of product quality.

DESCRIPTION

Cromemco's System 200 is a rugged, industrial grade computer that was designed for application in areas such as industrial automation and process control. A favorite of the military, the CS200 has a heavy-duty power supply, an all-metal chassis, and is rack-mountable in standard industry enclosures. The CS200 has a noise tight design that generates low levels of R.F. noise. This feature is mandatory in electronically sensitive applications. The CS200 has been shown, in independent testing, to far exceed the temperature range required for computing systems. These features make the CS200 ideal in extended temperature and electronically sensitive applications.

PROCESSING PERFORMANCE

The central processor of the System 200 is the MC68010, a high-performance 32-bit processor. Mounted on the XPU processor board this chip works in conjunction with the XMM memory management board to provide demand-paging memory management (with 4K pages), scatter loading and other advanced

features that increase processing speed and optimize memory utilization. Context switching is achieved in a single instruction time for fast response when switching from user to user or task to task. The result is that multiple users can be added to the system with minimum degradation of system performance.

EXTENSIVE HIGH-SPEED MEMORY

The CS200 provides a wide range of memory capacities for both system and hard disk storage. System memory is available in 1Mb (non-error correcting) or 2Mb (error correcting) increments and can be expanded up to 16Mb in a single system. Internal hard disk storage is available in either 50Mb or 140Mb capacities. Should additional storage be required, external drives storing up to 1200Mb can be attached using the optional SMDI controller board.

Each system also comes with dual half-height minifloppy drives for reliable program interchange and hard disk back-up. Should additional back-up capacity be desired a free standing streaming tape storage device called the CTD is available. The CTD incorporates a 0.25" streaming cartridge tape drive storing 32Mb of unformatted data.

THE POWER OF UNIX

Whether your application requires FORTRAN programming for scientific purposes or multiuser database management, UNIX System V provides the power and versatility that you need. This industry standard operating system is specially configured to take advantage of the large memory available on the CS200. In systems which have 2Mb or more of main memory a full 750Kb RAM is allocated as a buffer

area by the system. For many jobs, this will greatly reduce the number of disk accesses required, and substantially increase the speed of the system.

Included with Cromemco's UNIX are the highly acclaimed Berkeley enhancements, which include CSHELL, TERMCAP, UUCP, and VI. Also included is **ce**, Cromemco's powerful screen editor. **ce** incorporates the power of VI into an easy-to-use format.

EXTENSIVE APPLICATIONS SOFTWARE

Cromemco offers an extensive line of applications software to help the user take full advantage of the CS200's and UNIX's capabilities. For programmers, Cromemco offers a full line of development languages including C, FORTRAN 77, BASIC, Pascal, and COBOL. In addition we offer several industry acclaimed applications programs, including:

- ☐ Informix-SQL: Database Management
- ☐ Unify: Database Management
- ☐ Q-Office: Office Automation
- ☐ Tango: IBM PC to UNIX Communications (MS-DOS)
- ☐ PCWorks: IBM PC/UNIX Communications (PC-DOS)
- ☐ MacLine: Apple Macintosh/UNIX Communications
- ☐ 3270 Bisync: Communications to IBM mainframes
- ☐ X.25:Public Data Network (PDN) communications

Hundreds of other application specific packages

running on Cromemco computers can be found in our 200-page *Software Resource Guide*.

COMMUNICATIONS

In the area of communications the optional BIART board supports both 3270 bisync for Micro-to-Mainframe communication, and X.25 for the world-wide public data carrier network. Interface is accomplished through either RS-232, RS-422, or RS-432 serial channels.

Ethernet is supported to the full seven layers of the ISO model for network protocols with the E-Net board set and B-Net software package. This implementation supports CSMA/CD protocol in hardware and TCP/IP protocol in software.

Other board products are available that support graphics, printers, peripherals, and other devices.

THE COMPLETE SOLUTION

Cromemco's System 200 provides the ruggedized performance that industrial applications demand. When its efficient hardware design is combined with the power of UNIX, wide variety of applications software, and optional board products, the CS200 stands out as the ideal computing engine in industrial, sensitive, and extended temperature environments.

MODEL	CS200H50X10	CS200H50X20E	CS200H150X10	CS200H150X20E
Processor	68010			
RAM	1Mb	2Mb	1Mb	2Mb
Error-Correcting Memory	No	Yes	No	Yes
ROM Firmware	RDOS diagnostics			
Serial Interface	RS-232 or current loop			
Floppy Disk Storage	2-390Kb			
Hard Disk Storage	50Mb	50Mb	140Mb	140Mb
Boards Supplies	XPU XMM STDC 64FDC 1024KZ	XPU XMM STDC 64FDC 2048MSU MCU	XPU XMM STDC 64FDC 1024KZ	XPU XMM STDC 64FDC 2048MSU MCU
Board Capacity	21 Boards			
Open Board Slots	16	15	16	15
Bus	IEEE-696			
Operating Systems Installed†	UNIX System V and Cromix-Plus			
Power	Operated from 100/115/130/220/240/260 volts, 50/60-cycle			
Power Consumption**	500 watts			
Power Supply	+ 8 volts @ 30A, + 16 volts @ 10A, - 16 volts @ 5A			
Dimensions	12-1/4" H x 19" W x 20-3/4" D (31.1 x 48.2 x 52.7 cm)			
Weight	65 lb.			
Mounting	For Rack Mounting			
Operating Environment	10-40° centigrade			

*Unformatted Capacity

**Maximum power consumption based on all slots being used

†Other models are available with Cromix-Plus only.

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Unify is a trademark of Unify Corporation.

Informix is a trademark of RDS, Inc.

Tango is a trademark of COSI.

P.C. Works and MacLine are trademarks of TouchStone Software Corp.

Q-Office is a trademark of Quadratron.

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